

The National Digital Information Infrastructure and Preservation Program (NDIIPP)

National Digital Strategy Advisory Board

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Library of Congress

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PLAN
of the City, intended for the
DRAINAGE of the
Territory of the
District of Columbia
Proposed according to the direction
of the President of the United States
given on the 1st of January, 1791,
at the City of New York,
on the 1st of January, 1791.

OBSERVATIONS explanatory of the PLAN.

1. The plan of the City, intended for the drainage of the Territory of the District of Columbia, is proposed according to the direction of the President of the United States given on the 1st of January, 1791, at the City of New York, on the 1st of January, 1791.
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REMARKS of the Streets.

The plan of the City, intended for the drainage of the Territory of the District of Columbia, is proposed according to the direction of the President of the United States given on the 1st of January, 1791, at the City of New York, on the 1st of January, 1791.

REFERENCE.

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Plan of the city of Washington
in the Territory of Columbia
intended for the
DRAINAGE of the
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Proposed according to the direction
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The perpendicular height
of the ground where the Congress
House stands, is above the tide of
Tiber Creek, 78 feet.

NDIIPP Goal

To develop a nationwide collection and preservation strategy for digital materials in cooperation with the information and technology industry, concerned federal agencies, libraries, research institutions and not-for-profit entities.

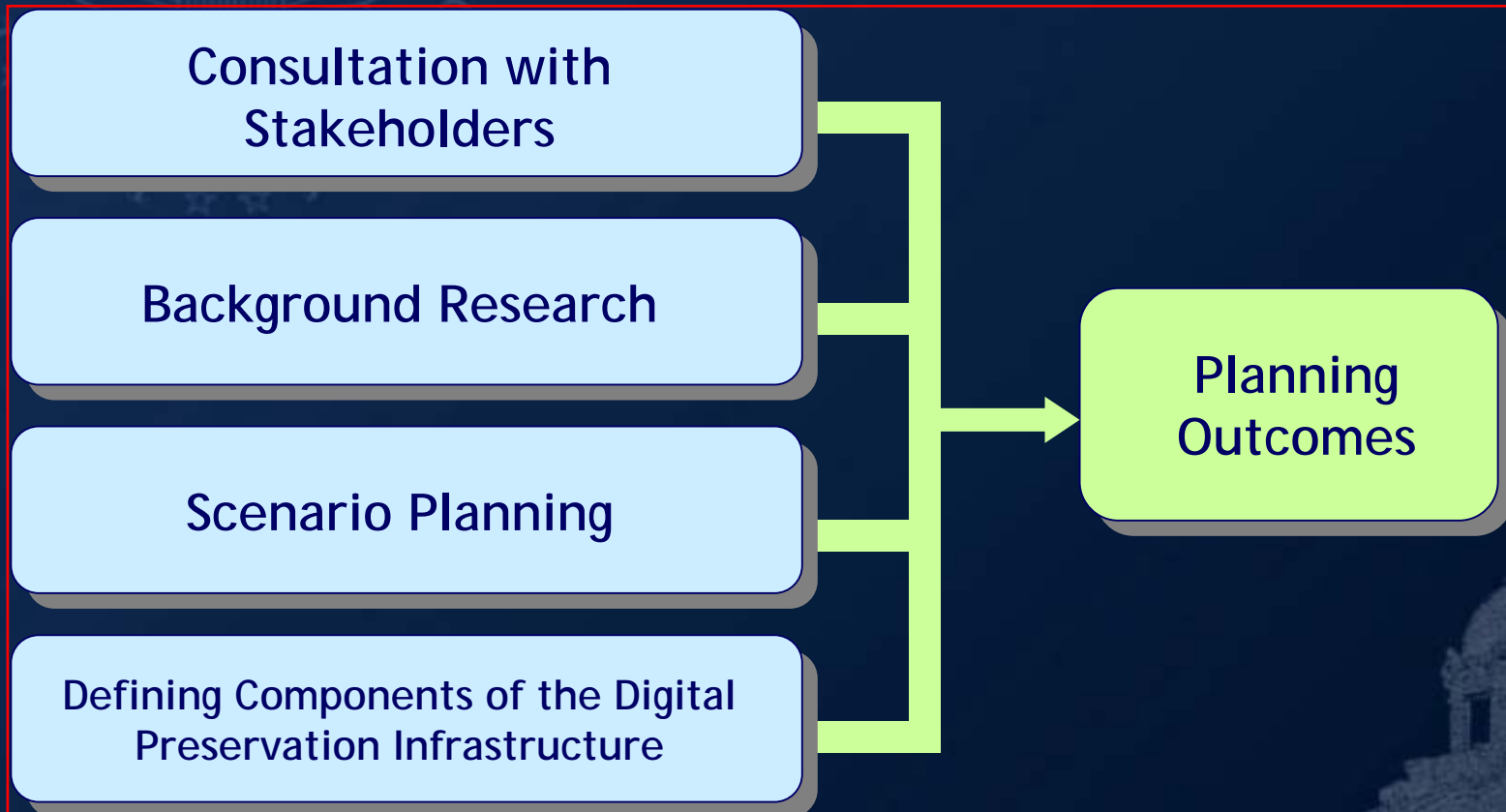
NDIIPP Vision

To ensure the long term access to a rich body of digital content through the establishment of a network of partners, collaborating in a digital preservation architecture with defined roles and responsibilities.

NDIIPP Legislation and Funding

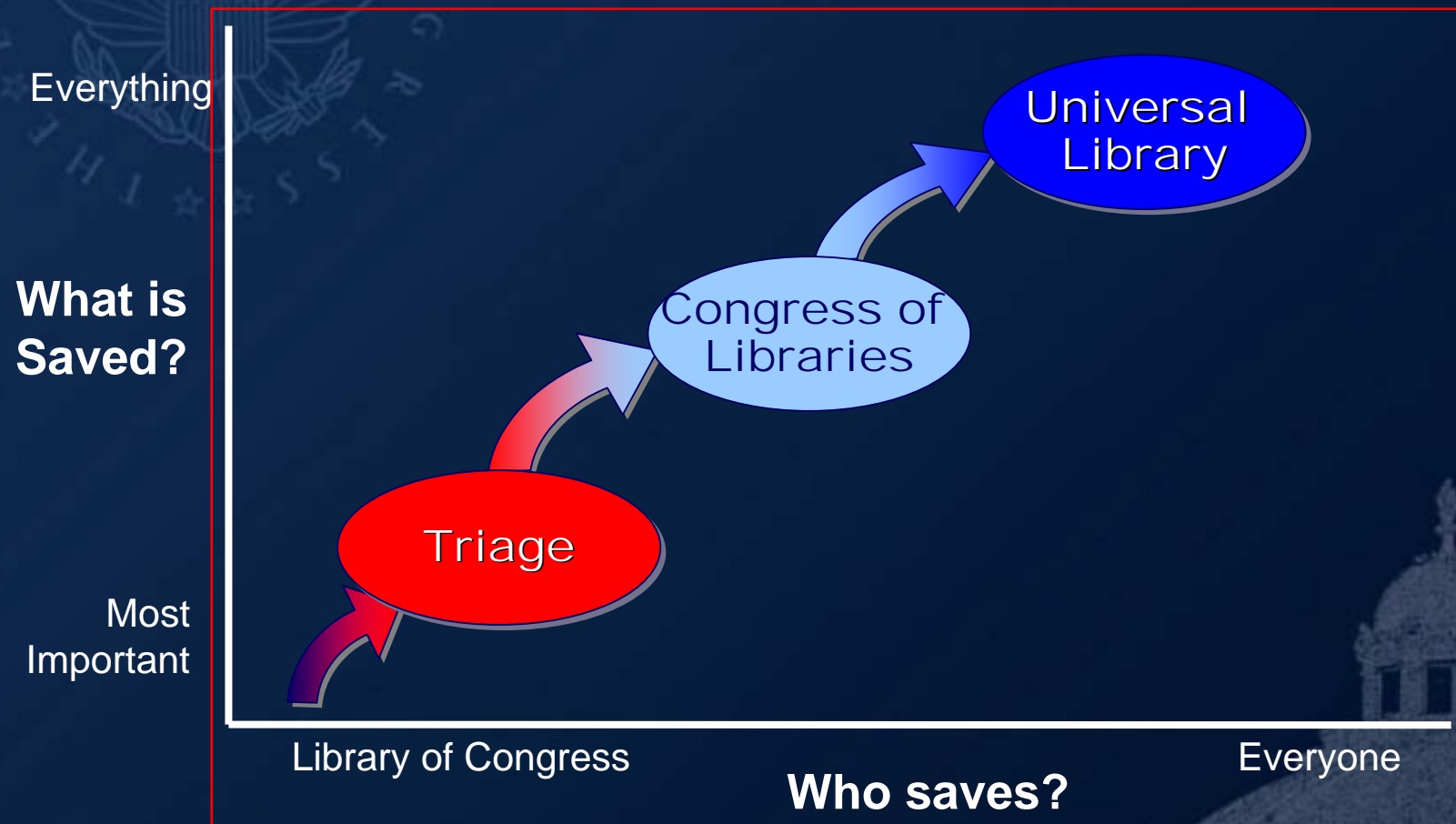
- Created by federal legislation (PL 106-554) in December 2000
- Up to \$175 million potentially available
 - \$5 million (available immediately until expended)
 - \$20 million (subject to advance Congressional approval)
 - \$75 million (subject to \$ for \$ match from non-federal sources)
 - \$75 million (private funds)

Listening and Learning Planning Phase, 2001-2002

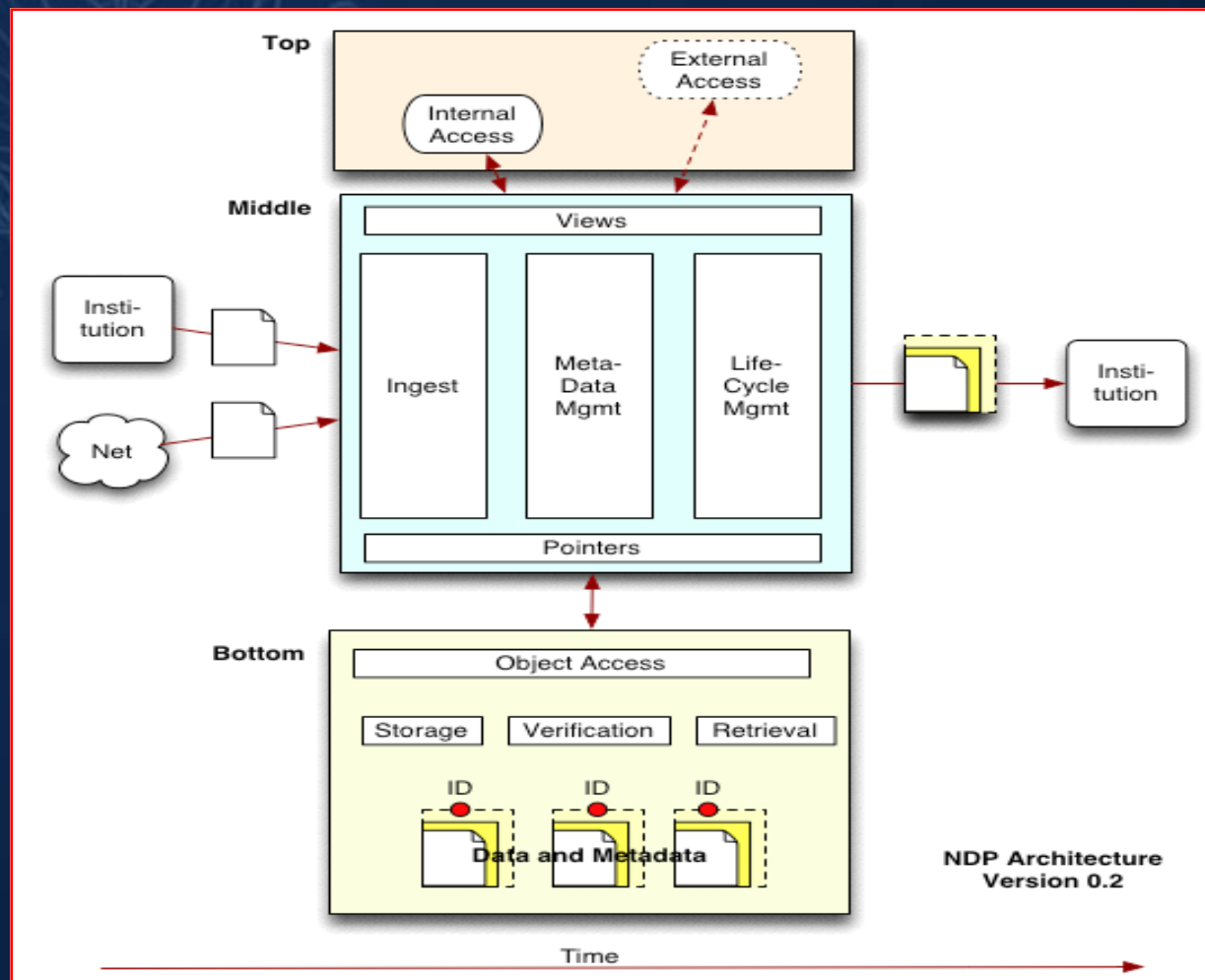


Scenario Planning

Plausible Scenarios



NDP Architecture Version 0.2



Facilitated NSF Workshop

- 15 federal agencies, corporate labs and computer scientists
- Areas of Focus
 - Core technical infrastructure
 - Preservation technologies and tools
 - Access to and use of preserved content
 - Basic computer science issues for large-scale storage systems

Major Lessons

- Distributed and decentralized approach
- Need for research into new tools and technologies
- Recognition that technology is only part of the problem
- Great concern for IP issues
- Need to create a balance between preservation and access
- An infrastructure has two major components:
 - A preservation network of partners
 - A technical architecture

3 Areas of Investment

- Network of partners
- Preservation architecture
- Basic research

Born Digital "At-Risk" Web Sites

- The Commonwealth Fund
- The Middle East Research Institute (MEMRI)
- Terrorism files.org
- Defend America



"At-Risk" Content

- 12 Terabytes
- Selected by curators and subject experts
- Major events
- Specific subject areas
- Material for use by Congress

Acquisitions/Capture Goal

- Web sites
- Web-casts
- e-journals
- TV and radio broadcasts
- Music
- Sound recordings
- Maps

Requires Handling

- Audio
- Text
- Databases
- Video
- Still and moving images
- Graphics
- Geo-spatial materials

Partnerships

- First NDIIPP Solicitation for Partners
- 22 eligible proposals
- Lead Institution with at least 1 other partner
- 2 peer review panels
- 8 recommended

8 Projects with 25 Participating Institutions

- Universities
- State governments
- Private companies
- TV broadcasters
- Law firms
- Non-profit archival organizations

Diverse and Challenging Content

- Social science data sets
- News broadcasting
- Geo-spatial material
- TV programming
- Business records
- Government and political web sites
- Historical multimedial collections

Content Subject Area

- Business history for the 1990s, including business plans, e-mail correspondence, records of a law firm
- U.S. Southern history and culture, including Civil War, Civil Rights, business, and church histories
- State and local government activities, community organizations, political campaign literature, state and national labor history (CA, AZ, NY), the California gubernatorial recall election, and an archive of web sites of former federal agencies

Content Subject Area

- LANDSAT imagery and other digital data; digitized historical map collection; federal and state agency geo-spatial data
- Social science data relevant to health care, demography, and the environment, including: respondent level survey data; qualitative data (interview transcripts), and federal data

Content Subject Area

- Heterogeneous materials as a testbed: digitized audio recordings, digital aerial photographs, digitized local public radio and television programs, digitized scientific and technical proposals
- International broadcast television journalism, including Middle East, China, Japan, Mexico, Chile, and Russia among others

Content Subject Area

- Public broadcasting programming and program elements from partnering organizations in the U.S.
- Geo-spatial data at the state, county, and municipal levels capable of supporting studies in public health, transportation, economic development, and demography

3 Year Period of Performance

- Content selection and collection
- IP issues
- Content transfer and retention
- Costs

International Partnerships

- Digital Preservation Coalition in the UK
- International Internet Preservation Consortium (IIPC)
 - 12 national libraries
 - Technical specifications for an open source web crawler
 - 5 working groups

International Internet Preservation Consortium (IIPC)

- France
- Italy
- Denmark
- Finland
- Iceland
- Canada
- Norway
- Australia
- Sweden
- United Kingdom
- Internet Archive, USA
- Library of Congress, USA

Business Model Partnerships

- Service bureau for archiving foreign news broadcasts
- Subscription and archiving service for e-journals
- Service provider for long-term archiving of large volume multimedial content

Technical Partnerships

- Repository development with NASA/Langley for video materials
- Prototyping development with Los Alamos National Lab for:
 - e-journals
 - Web sites materials, and
 - Multimedial collections

Next Round of Partnerships 2005

- State and local government content
- Corporate technology and computer science laboratories

Preservation Architecture

- In 2003, conducted a series of workshops with 47 technical experts
- Revised NDIIPP architecture
- Developed an archiving test of existing architectures

Goals of the Archive Ingest and Handling Test (AIHT)

- 4 institutions and 6 existing architectures
- Test of ingest, export, and transfer among architectures
- Identify gaps in functionality
- Focus on protocols and metadata investments

The National Science Foundation (NSF) Call for Research Goals

- Technical Architectures for Archival Repositories
- Attributes of Archival Collections
- Digital Archiving Tools and Technologies
- Organizational, Economic, and Policy Issues

5 Year Outcome

- Distributed network of collecting and preserving partners
- Up to 100 terabytes of “at risk” content
- Topics include: American Law, Domestic Social Policy, Foreign Affairs, Defense and Trade, Government and Finance, Science and Technology
- Variety of formats: text, numeric, video, images, audio, and geo-spatial

5 Year Outcome

- Multiple sources: TV and radio broadcasts, electronic journals, private archives, donations and the Web
- Preservation standards for digital content
- Governing body for NDIIPP
- Recommendations to Congress for future funding and legal options for NDIIPP

Digital Universe

